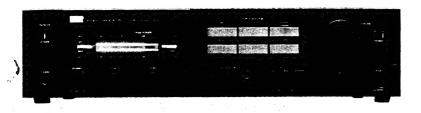


# INTEGRATED AMPLIFIER

# SANSUI AU-G55X/G33X



# CAUTION

- Parts identified by the Asymbol on the schematic diagram and the parts list are critical for safety. Use only replacement parts that have critical characteristics recommended by the manufacturer.
- Make leakage-current or resistance measurements to determine that exposed parts are acceptably insulated from the supply circuit before returning the appliance to the customer.



SANSUI ELECTRIC CO., LTD.

#### SPECIFICATIONS

| Power output < AU-G55       | (>                                |
|-----------------------------|-----------------------------------|
|                             | riven, from 20 to 20,000 Hz, with |
| no more than 0.004% tot     |                                   |
| 65 watts per channel i      |                                   |
| Power output < AU-G33       |                                   |
|                             | riven, from 20 to 20,000 Hz, with |
| no more than 0.004% total   |                                   |
|                             |                                   |
| 45 watts per channel i      |                                   |
| Load impedance              |                                   |
| Total harmonic distortion   |                                   |
|                             | less than 0.004% at or            |
|                             | below rated min. RMS              |
|                             | power output                      |
| Intermodulation distortio   |                                   |
| (60 Hz: 7 kHz = 4:1 SMPT    |                                   |
|                             | less than 0.004% at rated         |
|                             | power output                      |
| Frequency response (at 1    | watt)                             |
| Overall (from AUX, CI       | D, TUNER,                         |
| TAPE PLAY-1, 2)             | DC to 180,000 Hz, +0 dB           |
|                             | -3.0 dB                           |
| RIAA curve deviation (PH    | IONO-MM, 20 Hz to 20 kHz)         |
|                             |                                   |
| Input sensitivity and imp   |                                   |
| PHONO (MC)                  |                                   |
|                             | lity: 15 mV at 1 kHz, less than   |
| 0.008% total harmo          |                                   |
| PHONO (MM)                  |                                   |
| (May input conchil          | lity; 150 mV at 1 kHz, less than  |
|                             |                                   |
| 0.005% total harmo          |                                   |
| CD, AUX                     | . 150 mV/47 kohms                 |
| TUNER, TAPE PLAY-1,         |                                   |
|                             | . 150 mV/47 kohms                 |
| Signal to noise ratio (shor |                                   |
| PHONO (MC)                  |                                   |
| PHONO (MM)                  |                                   |
| CD, AUX                     |                                   |
| TUNER, TAPE PLAY-1,         | 2                                 |
|                             | . 105 dB                          |
| Controls and Filter         |                                   |
| BASS                        | +10 dB, -8 dB at 50 Hz            |
| TREBLE                      | . ±7 dB at 10kHz                  |
| LOUDNESS                    | +9 dB at 50 Hz                    |
|                             | +5 dB at 10kHz                    |
|                             | (VOLUME: -30 dB position)         |
| FILTERS                     |                                   |
|                             | -3 dB at 20 Hz (6 dB/oct)         |
|                             | -3  dB at  10  kHz (6  dB/oct)    |
| Power requirements < Al     |                                   |
| Power voltage               | 120/220/240V (5 <b>O</b> /60 Hz)  |
| For U.S.A. & Canad          |                                   |
| TOI U.J.A. & Canac          |                                   |
|                             |                                   |
| rower consumption           | 290 watts 351 VA Rated            |
| Downer remuirements - 41    | 440 watts Maximaum                |
| Power requirements < AL     | 120/220/240\: UF C/CO LI=\        |
|                             | 120/220/240\ (5 <b>Ø</b> /60 Hz)  |
| For U.S.A. & Canad          |                                   |
|                             |                                   |
| Power consumption           | 260 watts 321 VA Rated            |
|                             | 400 watts Maxim um                |
| Dimensions                  | 430 mm (16-15/1 6").W             |
|                             | 111 mm (4-38") H                  |
|                             | 329 mm (13↑ D►                    |
| Weight - ALL-CSSY >         | 8 4 kg (18 5 hc) net              |

Design and specifications subject to changes without notice for improvements.

9.5 kg (20.9 bs) packed

9.2 kg (20.3 bs) packed

Weight <AU-G55X> ..... 8.4 kg (18.5 bs) net

Weight <AU-G33X> ..... 8.1 kg (17.9 bs) net

Due to local laws and regulations, this unit sold is some areas are not equipped with variable voltage selectors.

# **CAUTION**

1. The symbols, UL, CSA, SA, BS, UK, EU, AS and XX (EXPORT) on the parts list and the schematic diagram mean followings respectively.

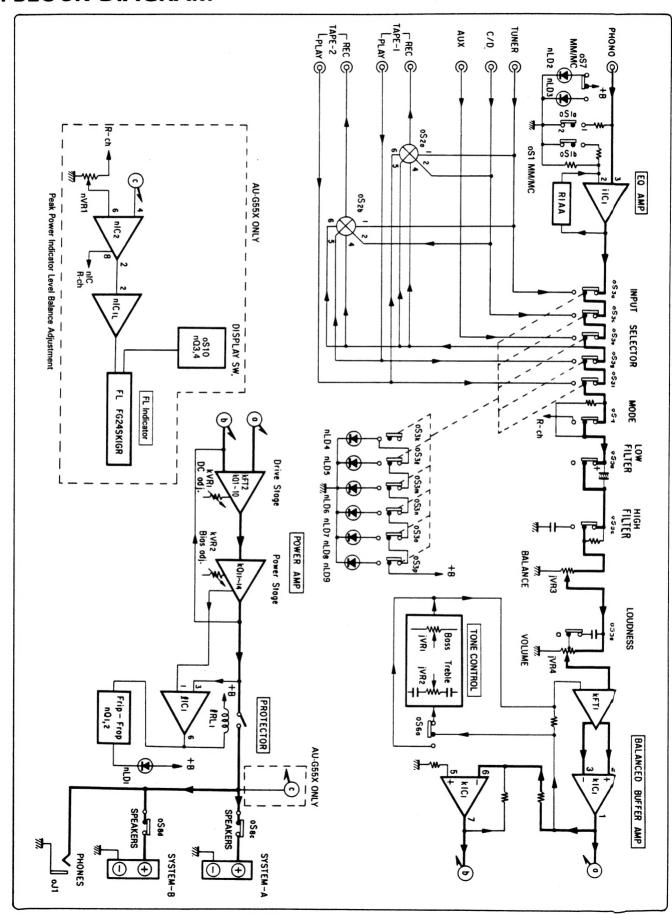
| UL          | Manufactured for U.S.A market.              |
|-------------|---|
|             | (Underwriters Laboratories approved model.) |
| CSA         | Manufactured for Canadian market.           |
| SA          | Manufactured for South African market.      |
| BS, UK      | Manufactured for United Kingdom market.     |
| EU          | Manufactured for European market.           |
| AS          | Manufactured for Australian market.         |
| XX (EXPORT) | Standard Version.                           |
| NON MARK    | Common Parts.                               |

- 2. Some printed circuit boards are not supplied as the assembled. To separate these in this service manual, the stock No's are not indicated at the ends of the board names. However, the individual parts on the circuit boards are provided by orders.
- Since some of capacitors and resistors are omitted from parts lists in this service manual, refer to the Common Parts List for capacitors & resistors, which was issued on February 1983.
- 4. Abbreviations in this service manual are as follows.

| _ •Ai | obreviations List             |        |                             |
|-------|-------------------------------|--------|-----------------------------|
| C.R   | . : Carbon Resistor           | E.B.L. | : Low Leak Bi-Polar         |
| S.R.  | : Solid Resistor              |        | Electrolytic Capacitor      |
| Ce.l  | R. : Cement Resistor          | Ta.C.  | : Tantalum Capacitor        |
| M.R   | . : Metal Film Resistor       | F.C.   | : Film Capacitor            |
| F.R.  | : Fusing Resistor             | M.P.   | : Metalized Paper Capacitor |
| N.I.I | R. : Non-Inflammable Resistor | P.C.   | : Polystyrene Capacitor     |
| A.R.  | : Array Resistor              | G.C.   | : Gimmic Capacitor          |
| C.C   | . : Ceramic Capacitor         | A.C.   | : Array Capacitor           |
| C.T.  | : Ceramic Capacitor,          | V.R.   | : Variable Resistor         |
|       | Temperature Compensation      | S.V.R. | : Semi Variable Resistor    |
| E.C.  | : Electrolytic Capacitor      | SW.    | : Switch                    |
| E.L.  | : Low Leak Electrolytic       | Chip R | .: Chip Resistor            |
|       | Capacitor                     | Chip C | .: Chip Capacitor           |
| E.B.  | : Bi-Polar Electrolytic       |        |                             |
|       | Capacitor                     |        |                             |
|       |                               |        |                             |

1

# 1. BLOCK DIAGRAM



# 2. ADJUSTMENT (See Top View on page 8)

### 2-1. Driver Circuit Adjustment

Note: 1) Master Volume .... Minimum

- 2) Room Temperature ... 18°C~28°C (65°F~83°F)
- 3) For this adjustment, run the unit for more than 20 minutes after the power is switched ON.
- 4) Before turning ON power switch, set kVR1 on F-4702 to center position.
- Before turning ON power switch, set kVR2 on F-4702 fully counterclockwise.

| STEP | SUBJECT                   | MEASURE OUTPUT   | ADJUST                 | ADJUST FOR   | REMARKS |
|------|---------------------------|--|------------------------|--------------|---------|
| 1.   | DC 0V Adj. L-CH           | Speaker Terminal (L-ch)  | kVR1, L-ch<br>(F-4702) | DC 0V±5 mV   |         |
| 2.   | DC 0V Adj. R-CH           | Speaker Terminal (R-ch)  | kVR1, R-ch<br>(F-4702) | DC 0V±5 mV   |         |
| 3.   | Bias Current Adj.<br>L-CH | Between emitters of power transistors (kQ13 & kQ14) (Across kR50L) | kVR2, L-ch<br>(F-4702) | DC 10mV±3 mV |         |
| 4.   | Bias Current Adj.<br>R-CH | Between emitters of power transistors (kQ13 & kQ14) (Across kR50R) | kVR2, R-ch<br>(F-4702) | DC 10mV±3 mV |         |

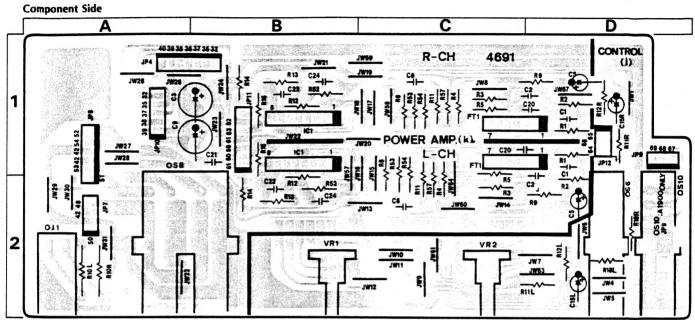
### 2-2. PEAK POWER Indicator Level Balance Adjustment

Note: Before adjustment, turn nVR1 on F-4705 fully clockwise from conductor side.

| STEP | SUBJECT   | SETTING  | ADJUSTMENT  |
|------|---|--|---|
| 1.   | PEAK POWER Indicator<br>Level Balance<br>Adjustment | 1.Feed 1kHz sine-wave signal from audio oscillator to AUX terminals, L-ch and R-ch of the unit.     2.Turn the master volume until the 11th segment from the left of the L-ch indicator just turns on. | 1.Turn nVR1 slowly counterclockwise until the same segment of the R-ch just turns on. |

# 3. PARTS LOCATION & PARTS LIST

# 3-1. F-4691 Control & Power Amp Circuit Board (Stock No. 00835201 = AU-G55X/Stock No. 00833301 = AU-G33X)



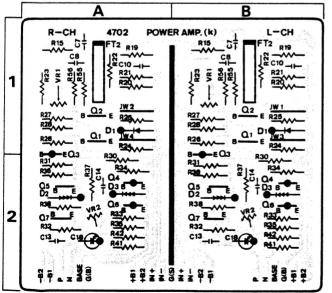
| Pa | rts | List |
|----|-----|------|
|    |     |      |

| Parts No.     | Stock No.            | Description                                |  |
|---------------|----------------------|--|--|
| jVR1<br>jVR2  | 48077500<br>48077500 | 50kΩ(C) V.R., BASS<br>50kΩ(C) V.R., TREBLE |  |
| •FET<br>kFT1  | 07110000             | μPA68H-L                                   |  |
| •IC<br>kIC1   | 46288800             | M5220L                                     |  |
| <b>⚠</b> kR10 | 46249700             | 220Ω 1W N.I.R.                             |  |

| Parts No. | Stock No. | Description        |
|-----------|-----------|--------------------|
| kC1       | 46653200  | 100pF 100V F.C.    |
| kC2       | 46655200  | 680pF 100V F.C.    |
| kC24      | 46283300  | 0.022μF 50V F.C.   |
| oS6       | 48077000  | Push SW., TONE     |
| oS8       | 48077200  | Push SW., SPEAKERS |
| oS10      | 48077000  | Push SW., DISPLAY  |
| oJ1       | 46579600  | Jack, PHONES       |

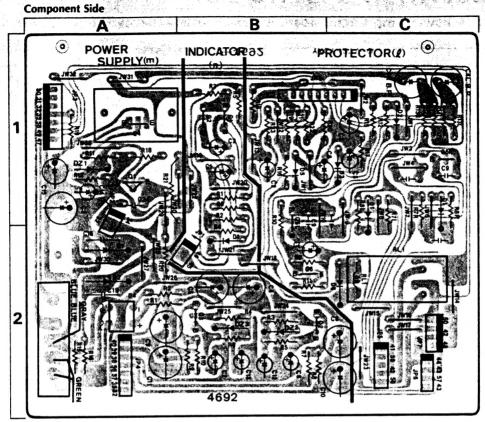
# 3-2. F-4702 Differential Amp Circuit Board (Stock No. 00836301 = AU-G55X/Stock No. 00834301 = AU-G33X)

**Component Side** 



| Parts No.                    | Stock No. | Description                |
|------------------------------|-----------|----------------------------|
| Transistor                   |           |                            |
| kQ1                          | 46581701  | 2SC1845                    |
| kQ2                          | 46581701  | 2SC1845                    |
| kQ3                          | 46581601  | 2SA992                     |
| kQ4                          | 46581601  | 2SA992                     |
| kQ5                          | 46581701  | 2SC1845                    |
| kQ6                          | 46728201  | 2SA1145                    |
| kQ7                          | 46728301  | 2SC2705                    |
| •FET                         |           |                            |
| kFT2                         | 07110000  | μPA68H-L                   |
| • Diode                      |           | p                          |
| kD1                          | 03117600  | 1S2473T77                  |
|                              | 03117600  | 1524/31//                  |
| <ul> <li>Varistor</li> </ul> |           |                            |
| kD2                          | 03401700  | MV103                      |
| kD3                          | 03401700  | MV103                      |
| <u>.</u> kR24                | 46230100  | 820Ω 1/2W N.I.R.           |
| <u></u> kR25                 | 46230100  | 820Ω 1/2W N.I.R.           |
| <u></u> & kR30               | 46230100  | 820Ω 1/2W N.I.R.           |
| <u></u> & kR31               | 46230100  | 820Ω 1/2W N.I.R.           |
| kC7                          | 46653200  | 100pF 100V F.C.            |
| kC10                         | 46655600  | 1000pF 100V F.C.           |
| kVR1                         |           |                            |
| kVR2                         | 10335700  | 100Ω(B) S.V.R., DC 0/ adj. |
| KVN2                         | 48078400  | 470Ω S.V.R., bias adj      |

# 3-3. F-4692 Protector Circuit Board (Stock No. 00835301 = AU-G55X/Stock No. 00833401 = AU-G33X)

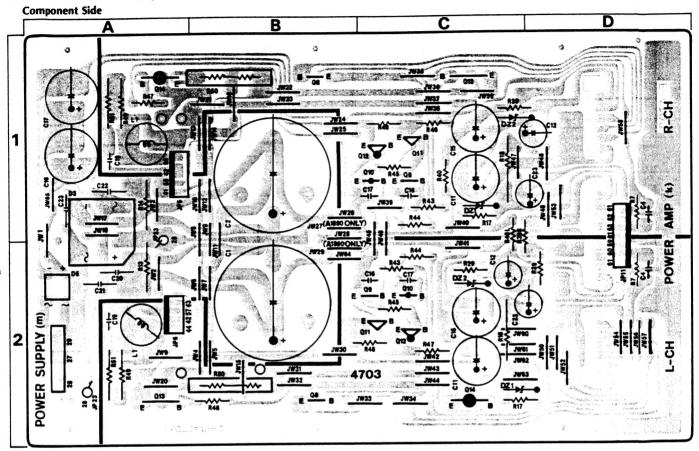


| Parts | List |
|-------|------|
|-------|------|

| Parts No.                                     | Stock No.  | Description  |
|---|--|--|
| •Transistor<br>IQ5<br>IQ6                     | 46581701<br>46581601   | 2SC1845<br>2SA992  |
| • <b>IC</b><br><b>∆</b> IIC1                  | 46207600   | TA7317P  |
| • Diode<br>ID1<br>ID2<br>ID3<br>ID5<br>ID6    | 03117600<br>03117600<br>03117600<br>03117600<br>03117700                         | 1S2473T77<br>1S2473T77<br>1S2473T77<br>1S2473T77<br>1OE-2  |
| IC2<br>IC3<br>IC4<br>IC5<br>IC6<br>IC7<br>IC9 | 46310700<br>46295200<br>48145900<br>46302400<br>46300000<br>46302800<br>46283300 | 0.47µF 100V E.C.<br>47µF 16V E.C.<br>220µF 6.3V E.B.<br>1µF 50V E.C.<br>47µF 35V E.C.<br>10µF 50V E.C.<br>0.022µF 50V F.C. |
| IRL1  | 46254900   | Relay AP24D2   |
| <b>∆</b> IR16                                 | 46229400   | 220Ω 1/2W N.I.R.   |
| ◆Transistor  ↑ mQ1  ↑ mQ2  ↑ mQ3  ↑ mQ4       | 03083901<br>or 46546701<br>46614101<br>46614001<br>03083901<br>or 46546701       | 2SD313AL<br>2SD880<br>2SC3243<br>2SA1283<br>2SD313AL (AU-G55X)<br>2SD880 (AU-G55X)   |
| • Diode  △ mD1  △ mD2  △ mD4                  | 03117700<br>03117700<br>46273600   | 10E-2<br>10E-2<br>DBB10-B  |
| •Zener Diode<br>mDZ1<br>mDZ2<br>mDZ3          | 46115100<br>or 46115200<br>46115400<br>or 46115500<br>46115400<br>or 46115500    | 05Z18-Y<br>05Z18-Z<br>05Z20-Y<br>05Z20-Z<br>05Z20-Y<br>05Z20-Z   |

| Parts No.  | Stock No.  | Description   |
|--|--|---|
| ↑ mR1<br>↑ mR2<br>↑ mR7<br>↑ mR8<br>↑ mR10<br>↑ mR10<br>↑ mR10<br>↑ mR16<br>↑ mR18<br>↑ mR18<br>↑ mR19<br>↑ mR20<br>↑ mR21 | 46227400<br>46227400<br>46228200<br>46228800<br>46228200<br>46228200<br>46228200<br>46227200<br>46227200<br>46227800<br>46227800<br>46227800<br>46229800<br>46908900 | 4.7Ω 1/2W N.I.R.<br>4.7Ω 1/2W N.I.R.<br>22Ω 1/2W N.I.R.<br>68Ω 1/2W N.I.R.<br>68Ω 1/2W N.I.R.<br>22Ω 1/2W N.I.R.<br>47Ω 1/2W N.I.R.<br>47Ω 1/2W N.I.R.<br>3.3Ω 1/2W N.I.R.<br>12ΩΩ 1/2W N.I.R.<br>12ΩΩ 1/2W N.I.R.<br>10Ω 1/2W N.I.R. |
| mC3<br>mC4<br>mC5<br>mC6<br>mC7<br>mC8<br>mC9<br>mC10<br>mC11<br>mC12<br>mC13<br>mC14<br>mC15<br>mC18<br>mC19              | 46300600<br>46300600<br>46300600<br>46297700<br>46298300<br>46298300<br>46298300<br>46298300<br>46302400<br>46302400<br>46302400<br>46302400<br>08680400             | 220µF 35V E.C.<br>220µF 35V E.C.<br>220µF 35V E.C.<br>47µF 25V E.C.<br>47µF 25V E.C.<br>220µF 25V E.C.<br>220µF 25V E.C.<br>220µF 25V E.C.<br>220µF 25V E.C.<br>1µF 50V E.C.<br>1µF 50V E.C.<br>100µF 25V E.C.<br>100µF 25V E.C.<br>100µF 25V E.C.<br>0.01µF 500V C.C.  |
| •Transistor<br>nQ1   | 46367101<br>or 46367301  | 2SC2603<br>2SC2458  |
| nQ2  | or 46391901<br>46367101<br>or 46367301<br>or 46391901  | 2SC2785<br>2SC2603<br>2SC2458<br>2SC2785  |
| <b>∆</b> nR22  | 08908100   | 2.2kΩ 1/4W C.R. (AU-G55))   |
| • Diode  | 02117600   | 100470777   |
| nD1  | 03117600   | 1S2473T77   |
| nC1<br>nC2   | 46302700<br>46302700   | 4.7μF 50V E.C.<br>4.7μF 50V E.C.  |

# 3-4. F-4703 Driver Amp & Power Supply Circuit Board (Stock No. 00836401 = AU-G55X/Stock No. 00834401 = AU-G33X)



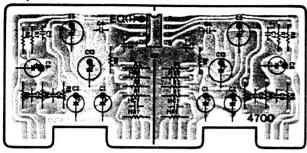
| <b>Parts</b> | List |
|--------------|------|
|--------------|------|

| Parts No.                          | Stock No.   | Description       |
|------------------------------------|-------------|-------------------|
| Transistor                         |             |                   |
| Δ kQ8                              | 03067401    | 2SC1845           |
| kQ9                                | 48113001    | 2SC2229           |
| kQ10                               | 48112901    | 2SA949            |
| kQ11                               | 03086101    | 2SD357            |
| kQ12                               | 03034401    | 2SB527            |
| <b>∆</b> kQ13                      | 46085301    | 2SC2581 (AU-G55X) |
| $\overline{\Lambda}$               | or 48120101 | 2SC3182 (AU-G55X) |
| $\overline{\Lambda}$               | 07203201    | 2SA1104 (AU-G33X) |
| <b>1</b> kQ14                      | 46085401    | 2SA1106 (AU-G55X) |
| <u> </u>                           | or 48120001 | 2SA1265 (AU-G55X) |
| ▲<br>Δ<br>Δ<br>Δ<br>kQ14<br>Δ<br>Δ | 07203301    | 2SC2579 (AU-G33X) |
| •Zener Diod                        | e           |                   |
| kDZ1                               | 46115000    | 05Z18-X           |
|                                    | or 46115100 | 05Z18-Y           |
| kDZ2                               | 46115600    | 05Z22-X           |
|                                    | or 46115700 | 05Z22-Y           |
| <b>∆</b> kR 18                     | 46625600    | 1.2kΩ 2W N.I.R.   |
| <b>△ kR29</b>                      | 46230300    | 1.2kΩ 1/2W N.I.R. |
| <b>⚠ kR39</b>                      | 46228900    | 82Ω 1/2W N.I.R.   |
| <b>⚠</b> kR40                      | 46228900    | 82Ω 1/2W N.I.R.   |
| <b> kR4</b> 5                      | 46230200    | 1kΩ 1/2W N.I.R.   |
| <b>⚠</b> kR46                      | 46227400    | 4.7Ω 1/2W N.I.R.  |

| Parts No.            | Stock No.   | Description                   |
|----------------------|-------------|-------------------------------|
| <u>.</u> kR47        | 46227400    | 4.7 <b>Ω</b> 1/2W N.I.R.      |
| * kR48               | 46229300    | 180Ω 1/2W N.I.R.              |
| ± kR49               | 46247300    | 2.2Ω 1W N.I.R.                |
| ₹ kR50               | 46644800    | 0.22×2Ω 5W Ce.R.              |
| <u></u> <b>k</b> R51 | 46622700    | 4.7 <b>Ω</b> 2W N.I.R.        |
| kC19                 | 46284100    | 0.1μF 50V F.C.                |
| kL1                  | 42903700    | Inductor 1µH                  |
| • Diode              |             |                               |
| ı́t mD3              | 46864000    | RB602                         |
| $\overline{\Delta}$  | or 46865300 | DBA60C                        |
| <u></u> mD5          | 46273700    | DBB10-C (AU-G55X)             |
| <u></u> mR13         | 46251600    | 8.2k 1W N.I.R.                |
| <u></u> mR14         | 46241600    | 8.2k 1W N.I.R.                |
| mC1                  | 48076400    | 10000µF 63V E.C. (AU-G55X)    |
|                      | 48076300    | 8200 pF 56V E.C. (AUG 33X)    |
| mC2                  | 48076400    | 10000µF 63V E.C. (AU-G55X)    |
|                      | 48076300    | 8200µF 56V E.C. (AUG 33X)     |
| mC20                 | 08680400    | 0.01µF 500V C.C.              |
| mC21                 | 08680400    | 0.01μF 500V C.C.              |
| mC22                 | 08680400    | 0.01µF 500V C.C.              |
| mC23                 | 08680400    | 0.01 <sub>µ</sub> F 500V C.C. |

# 3-5. F-4700 EQ Amp Circuit Board (Stock No. 00836101)

**Component Side** 

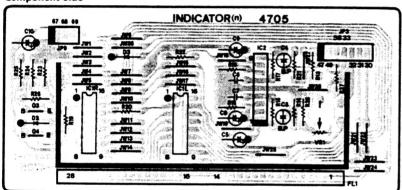


#### Parts List

| Parts No. | Stock No. | Description      | , |
|-----------|-----------|------------------|---|
| hC1       | 46653600  | 150pF 100V F.C.  |   |
| •IC       |           |                  |   |
| iIC1      | 46638700  | M5220P           |   |
| iC3       | 46654000  | 220pF 100V F.C.  |   |
| iC4       | 46653200  | 100pF 100V F.C.  |   |
| iC6       | 46697000  | 0.056µF 50V F.C. |   |
| iC7       | 46695700  | 0.016µF 50V F.C. |   |
| iC9       | 46282400  | 3300pF 50V F.C.  |   |
|           |           | •                |   |

# 3-6. F-4705 F.L Indicator Circuit Board (Stock No. 00836601) <AU-G55X only>

**Component Side** 



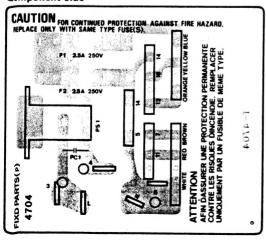
Parts List

| Parts No.    | Stock No.   | Description |  |
|--------------|-------------|-------------|--|
| • Transistor |             |             |  |
| nQ3          | 46367101    | 2SC2603     |  |
|              | or 46367301 | 2SC2458     |  |
|              | or 46391901 | 2SC2785     |  |
| nQ4          | 46367101    | 2SC2603     |  |
|              | or 46367301 | 2SC2458     |  |
|              | or 46391901 | 2SC2785     |  |
| •IC          |             |             |  |
| nIC1         | 46254700    | HA12010     |  |
| nIC2         | 03610000    | TA7318P     |  |

| Parts No. | Stock No. | Description                  |   |
|-----------|-----------|------------------------------|---|
| • Diode   |           |                              | _ |
| nD2       | 03117600  | 1S2473T77                    |   |
| nD3       | 03117600  | 1S2473T77                    |   |
| nFL1      | 46526600  | FL. Display Tube FG24SK6GR   |   |
| nC3       | 48103200  | 0.47µF 50V E.B.              |   |
| nC4       | 48103200  | 0.47µF 50V E.B.              |   |
| nC6       | 46282900  | 0.01 µF 50V F.C.             | , |
| nC7       | 46282900  | 0.01μF 50V F.C.              | ( |
| nVR1      | 07241100  | 2kΩ S.V.R., meter level adj. |   |

### 3-7. F-4704 POWER SW. Board

Component Side

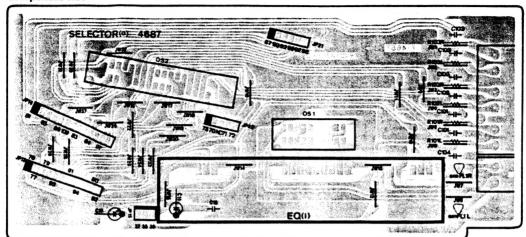


**Parts List** 

| Parts No.                        | Stock No.                        | Description   |
|----------------------------------|----------------------------------|---|
| <b>∆</b> pC1                     | 46425800                         | 0.01µF 400V C.C   |
| <b>♣</b> pF1<br><b>♣</b>         | 07188800<br>07189200             | Fuse 3.0A 250V (AU-G55X XX) Fuse 6.0A 250V (AU-G55X UL. CSA)  |
| <b>△</b><br><b>△</b><br><b>△</b> | 07184900<br>07188700<br>07189100 | Fuse 1.6A 250V (AU-G55X EU)<br>Fuse 2.5A 250V (AU-G33X XX)<br>Fuse 5.0A 250V                                    |
| <u>^</u><br><u>^</u>             | 07184800<br>07188800<br>07188700 | (AU-G33X UL, CSA)<br>Fuse 1.25A 250V (AU-G33X EU)<br>Fuse 3.0A 250V (AU-G55X XX)<br>Fuse 2.5A 250V (AU-G33X XX) |
| <b>∆</b> pS1                     | 48113300<br>48065100             | Push SW., POWER (XX, €U)<br>Push SW., POWER (UL, CSA)   |

# 3-8. F-4687 PHONO SW., REC SW. & Input Terminal Circuit Board

**Component Side** 



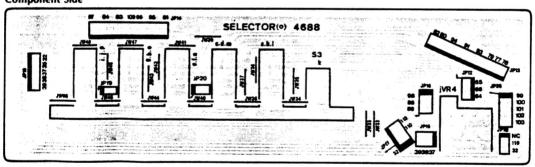
#### Parts List

| Parts No.  | Stock No.                            | Description  |
|------------|--------------------------------------|--|
| iC12       | 46280900                             | 0.022µF 50V F.C.                                       |
| oS1<br>oS2 | 48077 <b>800</b><br>07200 <b>200</b> | Slide SW., MC & MM SELECTOR<br>Slide SW., REC Selector |

| Parts No.  | Stock No.            | Description  |
|------------|----------------------|--|
| oZ1<br>oZ2 | 46438100<br>46546800 | 2P Terminal Board, PHONO<br>6P Terminal Board, TUNER, CD,<br>AUX |

# 3-9. F-4688 INPUT SELECTOR & VOLUME Circuit Board

**Component Side** 



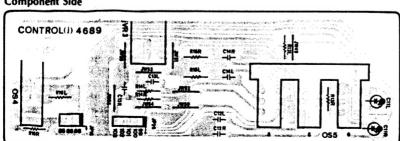
#### Parts List

| Parts No. | Stock No. | Description           |
|-----------|-----------|-----------------------|
| jVR4      | 48077600  | 150kΩ(B) V.R., VOLUME |

| Parts No. | Stock No. | Description              |
|-----------|-----------|--------------------------|
| oS3       | 48076800  | Push SW., INPUT SELECTOR |

# 3-10. F-4689 LOW HIGH LOUDNESS SW. & BALANCE V.R. Circuit Board

**Component Side** 



#### Parts List

| Parts No. | Stock No. | Description      |  |
|-----------|-----------|------------------|--|
| jC12      | 46531300  | 5600pF 50V F.C.  |  |
| jC13      | 46654400  | 330pF 100V F.C.  |  |
| jC14      | 46283300  | 0.022μF 50V F.C. |  |

| Parts No. | Stock No. | Description                  |
|-----------|-----------|------------------------------|
| jVR3      | 48077400  | 250kΩ(MN) V.R.,BALANCE       |
| oS4       | 48077000  | Push SW., MODE               |
| oS5       | 48076900  | Push SW., LOW, HGH, LOUDNESS |

### 3-11. F-4690 Input Terminal Board

**Component Side** 

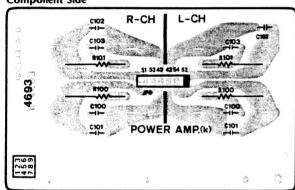


#### Parts List

| Parts No.  | Stock No.            | Description  |  |
|------------|----------------------|--|--|
| oZ3<br>oZ4 | 46363800<br>46363800 | Terminal Board 4P, TAPE-1<br>Terminal Board 4P, TPAE-2/PCM |  |

# 3-12. F-4693 SPEAKERS Terminal Board

**Component Side** 

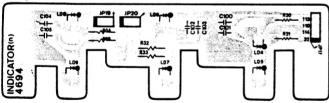


#### Parts List

| Parts No. | Stock No. | Description                |  |
|-----------|-----------|----------------------------|--|
| oZ5       | 48123100  | Terminal Board 8P, SPEAKER |  |

# 3-13. F-4694 Indicator Board

Component Side

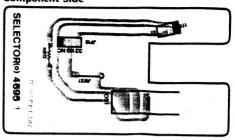


**Parts List** 

| Stock No. | Description  |   |
|-----------|--|---|
|           |  |   |
| 48076100  | SEL2413E   |   |
|           | 48076100<br>48076100<br>48076100<br>48076100<br>48076100 | 48076100 SEL2413E<br>48076100 SEL2413E<br>48076100 SEL2413E<br>48076100 SEL2413E<br>48076100 SEL2413E |

# 3-14. F-4695 PHONO SW. Board

**Component Side** 



#### Parts Lie

| Turts List |           |                 |
|------------|-----------|-----------------|
| Parts No.  | Stock No. | Description     |
| oS7        | 48077300  | Push SW., PHONO |

### 3-15. F-4696 MM/MC Indicator Board

**Component Side** 



#### Parts List

| Parts No. | Stock No. | Description  |  |
|-----------|-----------|--------------|--|
| •LED      |           |              |  |
| nLD2      | 46169300  | SEL1210S, MM |  |
| nLD3      | 46173900  | SLP270C, MC  |  |
|           |           |              |  |

### 3-16. F-4697 PROTECTOR Indicator Board

**Component Side** 

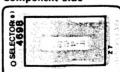


#### **Parts List**

| Parts No. | Stock No. | Description         |
|-----------|-----------|---------------------|
| •LED      |           |                     |
| nLD1      | 46169300  | SEL1210S, PROTECTOR |

# 3-17. F-4698 Rotary Flex Board (REC Selector)

**Component Side** 

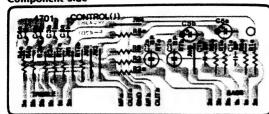


Parts List

| Parts No. | Stock No. | Description                                 |
|-----------|-----------|---|
| oZ7       | 48077700  | Rotary Flex with Flexible Wire REC SELECTOR |

# 3-18. F-4701 Control Board

#### **Component Side**



| _  |     |     |   |
|----|-----|-----|---|
| Pa | rts | 119 | ĭ |

| Parts No. | Stock No. | . Description    |  |
|-----------|-----------|------------------|--|
| jC1       | 46697300  | 0.075µF 50V F.C. |  |
| íC2       | 46936900  | 0.15µF 50V E.B.  |  |
| ic3       | 46695500  | 0.013μF 50V F.C. |  |
| iC4       | 46283500  | 0.033µF 50V F.C. |  |

# 3-19. F-4699 Pilot Lamp Board <AU-G55X only>

#### **Component Side**

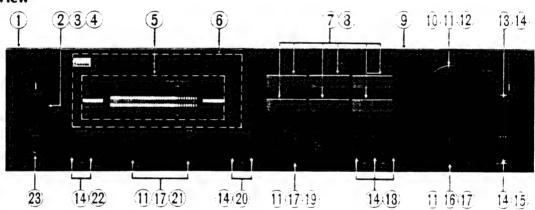


Parts List

| Parts No. | Stock No. | Description          |
|-----------|-----------|----------------------|
| nPL1      | 46315900  | Pilot Lamp 0.15A 12V |

# 4. OTHER PARTS

### 4-1. Front View

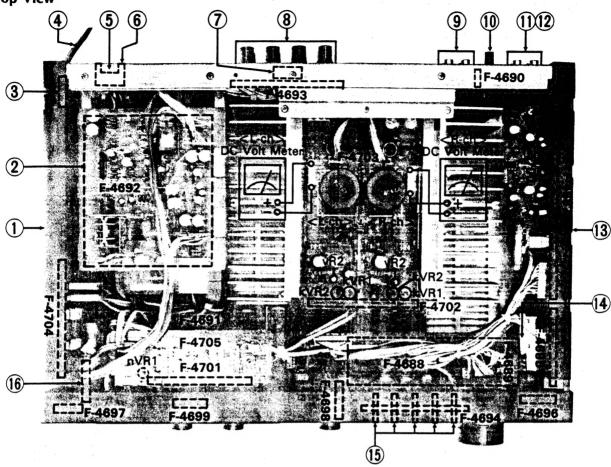


Parts List < Front View>

| Parts No.  | Stock No. | Description                     |
|------------|-----------|---------------------------------|
| 1          | 47648500  | Front Panel Ass'y (AU-G55X)     |
|            | 47648400  | Front Panel Ass'v (AU-G33X)     |
| 2          | 47633700  | Knob, POWER                     |
| 3          | 47637300  | Joint Shaft (1)                 |
| <b>▲</b> 4 | 48113300  | Push SW., POWER (XX, EU)        |
| $\Delta$   | 48065100  | Push SW., POWER (UL. CSA)       |
| 5          | 46526600  | FL. Display Tube (AU-G55X only) |
| 6          | 47637000  | Display Plate (AU-G55X only)    |
| 7          | 48076800  | Push SW., INPUT SELECTOR        |
| 8          | 47637400  | Joint Shaft (2)                 |
| 9          | 47703600  | Bonnet (XX, UL, CSA)            |
|            | 47648300  | Bonnet (EU)                     |
| 10         | 48077600  | 150kΩ(B) × 2 V.R., VOLUME       |
| 11         | 47636600  | FS Holder 4728 7800 C           |
| 12         | 47636400  | Knob, VOLUME                    |

| Parts No. | Stock No. | Description   |
|-----------|-----------|---|
| 13        | 48077300  | Push SW., PHONO   |
| 14        | 47636300  | Push Knob, PHONOMODE, LOW, HIGH, LOUDNESS, TO NE, DIS-PLAY, SPEAKER |
| 15        | 48077000  | Push SW., MODE  |
| 16        | 48077400  | 250kΩ (MN) V.R., BALANCE  |
| 17        | 47636600  | Knob, BALANCE, REC SELECTOR, TREBLE, BASS                           |
| 18        | 48076900  | Push SW., LOW, HIGH, LOUDNESS                                       |
| 19        | 48077700  | Rotary Flex with Flexble Wire, REC SELECTOR                         |
| 20        | 48077000  | Push SW., DISPLAY, TONE   |
| 21        | 48077500  | 50kΩ(C) V.R., TREBLE, BASS  |
| 22        | 48077200  | Push SW., SPEAKERS  |
| 23        | 46579600  | Jack, PHONES  |

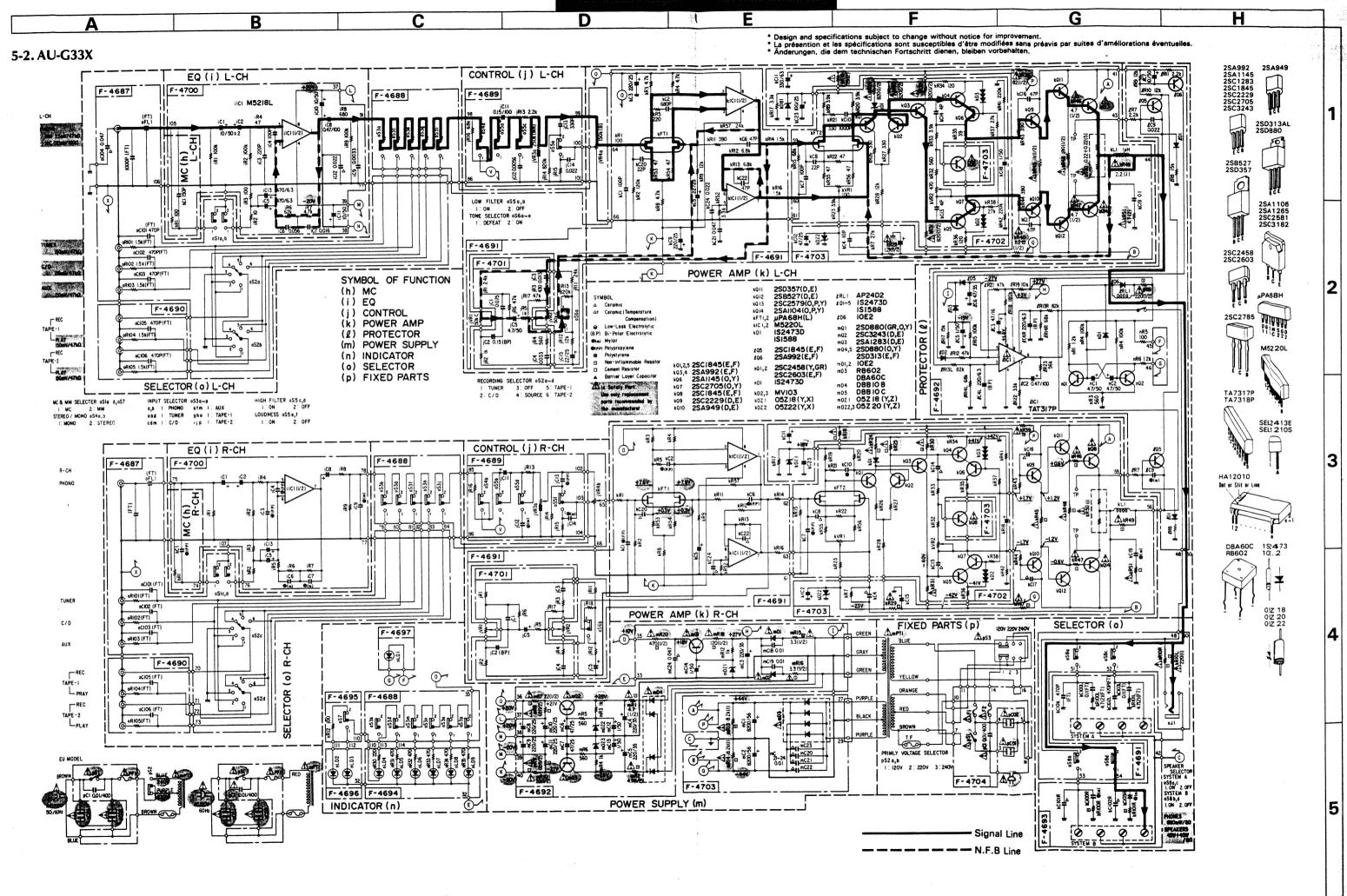
4-2. Top View



Parts List < Top View>

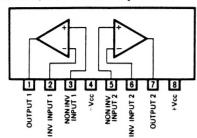
| Parts No.     | Stock No. | Description                    |
|---------------|-----------|--------------------------------|
| 1             | 47608900  | Side Panel Ass'y (L)           |
| <b>⚠</b> 2    | 15018101  | Power Transformer (AU-G55X XX) |
| $\Delta$      | 15018102  | Power Transformer              |
|               |           | (AU-G55X UL, CSA)              |
| $\Delta$      | 15018105  | Power Transformer (AU-G55X EU) |
| <u>A</u>      | 15018001  | Power Transformer (AU-G33X XX) |
| $\Delta$      | 15018002  | Power Transformer              |
|               |           | (AU-G33X UL, CSA)              |
| $\Delta$      | 15018005  | Power Transformer (AU-G33X EU) |
| 3             | 47157300  | AC Cord Cover                  |
| <b>∆</b> 4    | 48004700  | Power Supply Cord (XX)         |
| Δ             | 46407700  | Power Supply Cord (UL, CSA)    |
| Δ<br>Δ<br>Δ 5 | 46128900  | Power Supply Cord (EU)         |
| <b>⚠</b> 5    | 48062100  | Slide SW., VOLTAGE SELECTOR    |
|               |           | (XX)                           |
| Δ             | 07204700  | Slide SW., VOLTAGE SELECTOR    |
|               |           | (EU)                           |

| Parts No.  | Stock No. | Description  |
|------------|-----------|--|
| <b>△</b> 6 | 48076600  | AC OUTLET (XX, UL, CSA)                                    |
| $\Delta$   | 46161000  | AC OUTLET (EU)   |
| 7          | 46739400  | Slide SW., SPEAKER INPEDANCE<br>SELECTOR (AU-G55X XX, EU)  |
|            | 46736600  | Slide SW., SPEAKER INPEDANCE<br>SELECTOR (AU-G55X UL, CSA) |
| 8          | 48123100  | 8P Terminal Board, SPEAKERS                                |
| 9          | 46363800  | 4P Terminal Board, TAPE-1•<br>TAPE-2/PCM                   |
| 10         | 22301510  | Ground Terminal  |
| 11         | 46438100  | 2P Terminal Board, PHONO                                   |
| 12         | 46546800  | 6P Terminal Board, TUNER, CD, AUX                          |
| 13         | 47638600  | Side Panel Ass'y (R)                                       |
| 14         | 48077900  | Flexible Wire  |
| 15         | 47637400  | Joint Shaft (2)  |
| 16         | 47637300  | Joint Shaft (1)  |

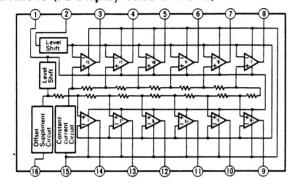


# 6. INTERIOR BLOCK DIAGRAM OF IC

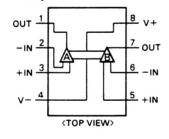
### •M5220L (Audio Pre Amp. IC)



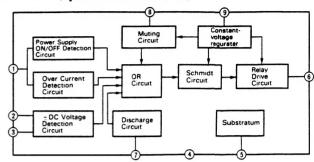
### •HA12010 (FL Display Tube Drive IC)



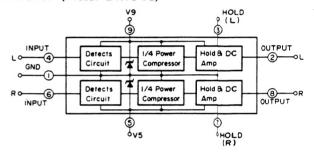
#### •M5220P (OP Amp. IC)



### •TA7317P (Speaker Protector IC)

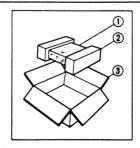


#### •TA7318P (Meter Drive IC)



# 7. PACKING LIST

| Parts No. | Stock No. | Description           |
|-----------|-----------|-----------------------|
| 1         | 91167620  | Vinyl Bag             |
| 2         | 47675300  | Styrofoam Packing     |
| 3         | 47648200  | Carton Case (AU-G55X) |
|           | 47648100  | Carton Case (AU-G33X) |



# 8. ACCESSORY LIST

| Stock No.            | Description  |
|----------------------|--|
| 46960800<br>46958300 | Operating Instuction (AU-G55X)<br>Operating Instuction (AU-G33X) |